WHAT IS CLAIMED IS:

	WITH TO CONTINUED TO			
1	1. A process for producing a magnetic anastomotic component suitable			
2	for implantation in a patient's body, the process comprising steps of:			
3	forming an anastomotic component having a desired configuration from a			
4	material capable of producing a magnetic field, the anastomotic component having an exterior			
5	surface;			
6	processing the anastomotic component to make the exterior surface suitable			
7	for receiving a layer of biocompatible material; and			
8	providing the exterior surface of the anastomotic component with a layer of			
9	biocompatible material.			
1	2. The process of claim 1 wherein the processing step is performed to			
2	make the exterior surface of the component substantially smooth.			
1	3. The process of claim 2 wherein the processing step comprises			
2	removing unwanted material from the exterior surface of the component by abrasive			
3	microblasting.			
1	4. The process of claim 3 wherein the processing step comprises placing			
2	the component in a mechanically abrasive environment.			
1	5. The process of claim 2 wherein the processing step comprises grinding			
2	the exterior surface of the component.			
1	6. The process of claim 2 wherein the processing step comprises acid			
2	etching the exterior surface of the component.			
1	7. The process of claim 1 wherein the providing step comprises disposing			
2	a layer of biocompatible material over another layer of material that covers the exterior			
3	surface of the anastomotic component.			
1	8 The process of claim 7 wherein the layer of biocompatible material is			

- 2 Gold and the other layer of material is Gold or Nickel.
- 1 9. The process of claim-1, further comprising electropolishing the component after placing a final layer of material thereon.

1	10.	The process of claim 1 wherein the component has an overall thickness			
2	within the range of from about 0.010 to about 0.030 inch, and the biocompatible layer has a				
3	thickness within the range of from about 0.0002 to about 0.0020 inch.				
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1	11.	The process of claim 1 wherein the component is formed from NeoFeB			
2	and a layer of biocom	patible material is placed over the NeoFeB.			
1	12.	The process of claim 1 wherein a portion of the exterior surface is			
2	formed with means for	or enhancing engagement between the component and the tissue of a			
3	vessel.				
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1	13.	The process of claim 1 wherein the forming step forms a component			
2 .	comprised entirely of	a material capable of producing a magnetic field.			
1	14.	The process of claim 1 wherein the forming step forms a component			
2	having a first configuration and the processing step changes the component to a second				
3	configuration having	structural differences from the first configuration.			
	1.5				
1	15.	The process of claim 1 wherein the providing step comprises plating			
2	the exterior surface of	the component.			
1	16.	The process of claim 15 wherein the exterior surface of the component			
2	is plated more than once.				
1	17.	The process of claim 1 wherein further comprising assembling the			
2	anastomotic compone	ent is assembled with a delivery device for packaging and sterilization.			
1	18.	The process of claim 1 wherein the anastomotic component is			
2	packaged and sterilize	ed after the providing step.			
1	19.	The process of claim 18 wherein the component is magnetized either			
2	before or after being i	packaged and sterilized.			

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for implantation in a patient's body, the process comprising steps of:

A process for producing a magnetic anastomotic component suitable

forming an anastomotic component having a desired configuration from a

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4	material capable of producing a magnetic field;			
5	packaging the component;			
6	sterilizing the component; and			
7	r	magnet	tizing the component in the package.	
1	. 2	21.	The process of claim 20 wherein the anastomotic component is	
2	packaged, magnetized and then sterilized.			
1	2	22.	The process of claim 21 wherein the component is packaged, sterilized	
2	and then magnetized.			
i	2	23.	The process of claim 22 wherein the component is sterilized by gas.	
1.	2	24.	The process of claim 21 wherein the packaging step comprises	
2	including a plurality of magnetic anastomotic components as part of a kit.			
1	2	25.	The process of claim 24 wherein the packaging step further comprises	
2	including at least one delivery device in the kit.			
1	2	26.	The process of claim 20 further comprising microblasting or acid-	
2	etching an exter	etching an exterior surface of the component to remove unwanted material, and then coating		
3	the compatible with a layer of biocompatible material prior to the packaging step.			
1	2	27.	A process for producing a magnetic anastomotic component suitable	
2	for implantation in a patient's body, the process comprising steps of:			
3	·	providi	ing an anastomotic component having an ability to produce a magnetic	
4	field, the component having an exterior surface;			
5	I	placing	g a layer of material on a first portion of the exterior surface of the	
6	component so a	s to le	ave a second portion of the exterior surface of the component uncovered	
7	by the material;	and		
8	I	magne	tizing the component.	
1	2	28.	The process of claim 27 wherein the material placed on the first portion	
2	of the exterior is paramagnetic.			
1	2	29.	The process of claim 28 wherein the second portion of the exterior	

surface of the component defines an area of concentrated magnetic flux.

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1		30.	The process of claim, 29 further comprising placing a layer of different		
2	material over the exterior surface of the component.				
1		31.	The process of claim 30 wherein the different material has diamagnetic		
2	properties.				
1		32.	The process of claim 29 wherein the second portion of the component		
1	defines a cont		area of concentrated flux.		
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1		33.	A process for producing a magnetic anastomotic component suitable		
2	for implantation	on in a p	patient's body, the process comprising steps of:		
3		formin	g an anastomotic component having a desired configuration from a		
4	material capable of producing a magnetic field, the component having an exterior surface;				
5		subject	ting the component to an acid etching process to remove surface		
6	irregularities; and				
7 .		provid	ing the exterior surface of the component with a layer of biocompatible		
8	material.		•		
1		34.	The process of claim 33 wherein the subjecting step is performed by		
2	placing the co	mponen	nt in a solution containing phosphoric acid.		
1		35.	The process of claim 34 wherein the component is placed in the		
2	phosphoric acid solution for an amount of time within the range of from about 5 minutes to				
3	about 15 minu	ites.			
1		36.	The process of claim 34 further comprising subjecting the solution to		
2	electric potent	ial after	the acid etching step		
		27			
1		37.	The process of claim 33 further comprising providing at least a portion		
2	of the exterior surface of the component with traction structure for enhancing engagement				
3	between the c	ompone	ent and the tissue of a vessel.		
1		38.	The process of claim 37 wherein the traction structure comprises a		

surface of the component provided with adhesive.

- The process of claim 37 wherein the traction structure comprises a surface of the component provided with tissue-gripping elements configured to grip the tissue of a vessel.
- 1 40. The process of claim 37 wherein the traction structure comprises a 2 surface of the component provided with a tacky coating configured to stick to vessel tissue.